

LISTING OF CLAIMS:

1-5. (canceled)

6. (previously presented) A bio-liquid crystal polymer, comprising a copolymer which is produced by polymerizing a) any one of aromatic series compounds found in nature which have two or more reactive functional groups and are capable of polymerizing and b) one or more selected from nucleic acids, amino acids, saccharides, fatty acids, terpenes, porphyrins, flavonoids, steroids and alkaloids which have two or more reactive functional groups and are capable of polymerizing,

wherein said copolymer comprises an aromatic ring in a main chain.

7-10. (canceled)

11. (original) A bio-liquid crystal polymer, comprising a copolymer of hydroxycinnamic acid and lithocholic acid.

12. (original) The bio-liquid crystal polymer according to claim 11, wherein:
said bio-liquid crystal polymer includes lithocholic acid of 0 to 70 mol%.

13. (original) The bio-liquid crystal polymer according to claim 11, wherein:
said bio-liquid crystal polymer includes lithocholic acid of 0 to 30 mol%.

14. (original) A shaped material for biocompatible parts, comprising a copolymer of hydroxycinnamic acid and lithocholic acid or polyhydroxycinnamic acid.

15. (original) A shaped material for parts requiring mechanical strength and thermal resistance, comprising a copolymer of hydroxycinnamic acid and lithocholic acid or polyhydroxycinnamic acid.

16. (original) A shaped material for fibers, comprising a copolymer of hydroxycinnamic acid and lithocholic acid or polyhydroxycinnamic acid.

17. (original) A shaped material for optical parts having an optical characteristic to be changed by light irradiation or heating, comprising a copolymer of hydroxycinnamic acid and lithocholic acid or polyhydroxycinnamic acid.